FT-902DM

PARTS LIST

YAESU MUSEN CO., LTD.

TOKYO JAPAN

PARTS LIST AND ORDERING DATA

If you live in the United States, you may order parts from Yaesu Electronics Corporation. In other countries, you should order parts from the Yaesu agent for your country. In countries where Yaesu is not currently represented, you may order spare parts directly from Yaesu Musen Company, Ltd. in Tokyo.

When ordering, please specify the exact model number of the transceiver that the part is for. Many parts are standard, such as resistors and disc ceramic capacitors, but you should use particular care when ordering such items as electrolytics, tantalum capacitors, and the like.

The parts list to follow identifies the board that the parts belong to, as well as the circuit designation and part description. A "Part Number" is also specified, and this number will allow immediate identification by our parts department of the item you require. (**See note below.)

Shipment of parts from Yaesu USA is usually made by UPS, COD. Allow at least a week for the parts department to process your order. You will receive prompt notification that your order has been received, and if parts are back ordered, or if additional information is required, you will be so informed.

PARTS ORDER EXAMPLE

QUANTITY	TRANSCEIVER IDENTIFICATION	LOCATION	**PART NUMBER	CIRCUIT DESIGNATION
1	FT-902DM	PB-2154	G4800510C	Q_{101} 3SK51-03

**Note: In earlier transceivers, no part numbering system was used in the manual. For this reason, the nomenclature "3SK51" will suffice for the part number. All FT-902DM transceivers have a part number for each component.

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YAESU MUSEN COMPANY, LTD. – C.P.O. BOX 1500, TOKYO, JAPAN
YAESU ELECTRONICS CORPORATION – 6851 Walthall Way, Paramount, CA90723
YAESU ELECTRONICS CORPORATION – 9812 Princeton-Glendale Rd., Cincinnati, OH 45246

ORDER BLANK

QUANTITY	TRANSCEIVER IDENTIFICATION	LOCATION	PART NUMBER	CIRCUIT DESIGNATION

I authorize shipment via: ☐ Best Way ☐ Parcel Post
☐ UPS ☐ Other

Ship To: (Print or Type)

Name: ______________________________
Address: ______________________________
City: ______________ State: __________ Zip: __________
Country: ______________________________

PARTS LIST

		INDUCTOR
L1	L0020304C	
L2	L0020305A	
L4	L1190017	FL-5H 102K 1mH
L11,12,14	L1190001	EL0710-251K 250μH
L8	L1020064	300μH
L6,7(R11,R12)	L0020308	
L9	L0020009	
L10	L1020690	500μH
L13	L0020705	
		TRANSFORMER
T1	L0020073	
T2,T3	L0020074	
		METER
M1(With PL3,4)	M0090007A	500μA
		SPEAKER
SP1	M4090031	SA-77K-Y 4Ω 3W
		POWER TRANSFORMER
PT1	L3030013A	
		RELAY
RL1	M1090006	AE3244
RL2	M1090002	MX2P 12V
		RELAY SOCKET
RLS1	M1490004	AE3840
RLS2	M1490001	PX08
		SWITCH
S1	N0050055A	RS-9-9-12
S2	N0050054	GS-4-8-6B
S3	N7090004	WD9216
S4	N7090005	WD9223
S5	N0190090	CS-3,5,12
		PLUG
P1(with Wire)	T9200320C	5047-08
P2(with Wire)	T9200520E	5047-07
P3(with Wire)	T9200340C	5047-17
P8(with Wire)	T9203640	5047-07
P4,5,6	P0090045	SQ4052
P10	P0090009	SQ4152
P7	P0090002	SI5908 4P
P9	P0090005	SI7502 2P

		CONNECTOR
J1	P1090001	SG-7701
J2	P0090009	FM-144-S
J3	P1090004	SG-7814
J10,11	P1090025	CN-7017
J12~18	R7040620A	Jack Ass'y Board
J19	P1090005	SG-8050
J4	P0090046	QS-A-DB12ML
J5	P1090033	D6-701B00
J6	P1090034	D7-701B00
J8	P1090028	M-BR-06B(D)
J20	P1090045	AC9-PF
J7	P1090014	SI-7501-1
J9	P1090040	SA602B00
		MULTI JACK
MJ1~8	P4090003	121S-18B-105A
MJ9	P4090004	121S-22B-105A
MJ10	P4090001	121S-10B-105A
MJ11,12	P4090007	220D-20B-205A
		COOLING FAN
FAN1	M2090001	2SB10A
		FUSE
F1	Q0000005	5A(100~117V)
	Q0000004	3A(200~234V)
		FUSE HOLDER
FH1	P2000003	F3265
FH2	P2000001	SN1001 #2
		PILOT LAMP
PL1	Q1000039	BF311-04071A 14V0.12A
PL2,3	Q1000040	BQ-044-22839A 8V 100mA
PL4(M1)	—	Meter lamp 8V0.055A
PB-1390	F0001390	LED B BOARD
D8	G2090060	LED GD4-203-SRD

RF UNIT

Symbol No.	Parts No.	Description
	C0021540	RF unit with components
PB-2154A	F0002154A	P.C.Board
		FET
Q101	G4800510C	3SK51-03
Q106	G4800400M	3SK40M
Q103	G3090019	J310
Q102	G2090135	ND487C2-3R

PARTS LIST

		TRANSISTOR
Q104,105	G3324070	2SC2407
		DIODE
D101,102,105~109	G2090027	Si 1SS53
D103,104	G2015550	Si 1S1555
D110	G2090093	Ge(GB) 1N270
		RESISTOR
R122,131	J00245479	Carbon film ¼WVJ 4.7Ω
R109,110,115,116,124 140	J00245100	〃 〃 〃 10Ω
R135	J00245223	〃 〃 〃 22kΩ
R106,107,113,114,139	J00245101	〃 〃 〃 100Ω
R108,117,126	J00245121	〃 〃 〃 120Ω
R121,130	J00245151	〃 〃 〃 150Ω
R123,132	J00245221	〃 〃 〃 220Ω
R136	J00245331	〃 〃 〃 330Ω
R119,128	J00245561	〃 〃 〃 560Ω
R105,111,112,120,129	J00245102	〃 〃 〃 1kΩ
R125	J00245271	〃 〃 〃 270Ω
R118,127	J00245152	〃 〃 〃 1.5kΩ
R141	J00245222	〃 〃 〃 2.2kΩ
R102	J00245272	〃 〃 〃 2.7kΩ
R104,133	J00245562	〃 〃 〃 5.6kΩ
R138	J00245103	〃 〃 〃 10kΩ
R137	J00245183	〃 〃 〃 18kΩ
R134	J00245393	〃 〃 〃 39kΩ
R101	J00245225	〃 〃 〃 2.2MΩ
R103	J00245473	〃 〃 〃 47kΩ
		CAPACITOR
C124	K30176391	Dipped mica 50WV 390pF (Z18D391K05)
C138	K02179003	Ceramic disc 50WV 2pF (DD104CK020C50V02)
C106	K02172040	Ceramic disc 50WV 4pF (DD104CH040C50V02)
C125,126	K00175680	Ceramic disc 50WV 68pF (DD104SL680J50V02)
C103	K00175101	Ceramic disc 50WV 100pF (DD105SL101J50V02)
C102,104,116,130,119 ~121,131,135,140 144,145	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C101,105,107~115, 117,118,122,123, 127~129,132~134, 136.137, 142, 143, 139	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C141	K40120336	Electrolytic 16WV 33μF (16RL33)
		TRIMMER CAPACITOR
TC101	K91000019	ECV-1ZW 10×40 10pF

		INDUCTOR
L107	L0020491	0.32μH
L108	L1190005	FL-4H 1R0M 1μH
L112	L1190033	FL-5H 820K 82μH
L102,103,105,106,113 114	L1190016	FL-5H 101K 100μH
L104,109,111	L1190020	FL-5H 151K 150μH
L101,110,115	L1190038	FL-5H 271K 270μH
		TRANSFORMER
T101~103	L0020788A	
T104	L0020221A	
		JACK
J101~103	P1090018	SQ-3081

NB UNIT

Symbol No.	Parts No.	Description
	C0019940	NB unit with components
PB-1994	F0001994	P. C. Board
		IC, FET & TRANSISTOR
Q206	G1090063	IC TA7060P
Q201	G3801680D	FET 2SK168D
Q209,210	G4800400M	FET 3SK40M
Q212	G4800510C	FET 3SK51-03
Q203	G4800590G	FET 3SK59GR
Q202,204,205,207,211	G3318150Y	Transistor 2SC1815Y
		DIODE
D202,203	G2090029	Germanium 1N60
D201,205,208	G2015550	Silicon 1S1555
D210	G2090010	Zener WZ090
D204	G2090012	Zener WZ110
		CRYSTAL
X201	H0100431A	HC-18/U 8533.3kHz
		CRYSTAL FILTER
XF201	H1100890	XF-8.9HP
		RESISTOR
R254	J00245560	Carbon film ¼W VJ 56Ω
R204,209,221,225 226,238,243,244	J00245101	〃 〃 〃 〃 100Ω

PARTS LIST

R252	J01245101	Carbon film ¼W TJ 100Ω
R241	J00245151	〃 〃 〃 VJ 150Ω
R216,237,260	J00245331	〃 〃 〃 〃 330Ω
R203,208,251	J00245471	〃 〃 〃 〃 470Ω
R211,212,215,217, 222,228	J00245102	〃 〃 〃 〃 1kΩ
R206	J00245152	〃 〃 〃 〃 1.5kΩ
R214,250	J00245222	〃 〃 〃 〃 2.2kΩ
R210	J00245272	〃 〃 〃 〃 2.7kΩ
R201,259	J00245332	〃 〃 〃 〃 3.3kΩ
R224	J00245682	〃 〃 〃 〃 6.8kΩ
R205	J00245822	〃 〃 〃 〃 8.2kΩ
R227,248,249	J00245103	〃 〃 〃 〃 10kΩ
R263	J01245123	〃 〃 〃 TJ 12kΩ
R207	J00245153	〃 〃 〃 VJ 15kΩ
R223,234	J00245333	〃 〃 〃 〃 33kΩ
R257,258	J00245393	〃 〃 〃 〃 39kΩ
R229,246	J00245473	〃 〃 〃 〃 47kΩ
R236,240,245,247, 255,256,257	J00245104	〃 〃 〃 〃 100kΩ
R239	J00245154	〃 〃 〃 〃 150kΩ
R235	J00245224	〃 〃 〃 〃 220kΩ
R220	J00245394	〃 〃 〃 〃 390kΩ
R262	J01245225	〃 〃 〃 TJ 2.2MΩ
		POTENTIOMETER
VR201,203	J50710202	V10KB-1-2 2kΩB
VR202	J50711502	TR11R100 5kΩB
		CAPACITOR
C201,206,216,238, 225,228	K00175101	Ceramic disc 50WV 100pF (DD105SL101J50V02)
C237	K00179019	Ceramic disc 50WV 200pF (DD106SL201J50V02)
C235	K00175221	Ceramic disc 50WV 220pF (DD107SL221J50V02)
C232	K13170102	Ceramic disc 50WV 0.001μF (DB200YF102Z5L2)
C202,203,205,208～213,217,219～224, 218,231,246,234, 236,240～243,245	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C215	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C244	K30176561	Dipped mica 50WV 560pF (LCQ18-561K05)
C214	K40120226	Electrolytic 16WV 22μF (16RL22)
C230,233	K50177473	Mylar 50WV 0.047μF (50F2U473M)
		INDUCTOR
L202	L1190020	FL-5H 151K 150μH
L203	L1190017	FL-5H 102K 1mH

		TRANSFORMER
T206,207	L0020101	R12-4097
T201,202,204,205	L0020140	R12-4170
T203	L0020221A	R12-1078
	Q5000011	Wrapping Terminal C

FILTER UNIT

Symbol No.	Parts No.	Description
	C0019950	Filter unit with components
PB-1995	F0001995	P. C. Board
		FET & TRANSISTOR
Q301,302,304,305	G3090035	FET 2SK19TM-GR
Q303	G3318150G	Transistor 2SC1815GR
		DIODE
D301,303～309	G2090093	Germanium 1N270
D302,310	G2015550	Silicon 1S1555
D312	G2090012	Zener WZ110
D315～321	G2090118	Germanium 1SS97
		CRYSTAL FILTER
XF301	H1100470	8.9M-20
XF304	H1100860	XF-8.9HS
XF303	H1100870	XF-8.9GA (OPTION)
XF302	H1100880	XF-8.9HC (OPTION)
		RESISTOR
R323	J00245220	Carbon film ¼W VJ 22Ω
R301,302,309	J00245101	〃 〃 〃 〃 100Ω
R311,316,317	J01245101	〃 〃 〃 TJ 100Ω
R304,305	J00245331	〃 〃 〃 VJ 330Ω
R322,326	J00245561	〃 〃 〃 〃 560Ω
R308,318,319,325	J00245102	〃 〃 〃 〃 1kΩ
R306	J00245222	〃 〃 〃 〃 2.2kΩ
R327	J00245272	〃 〃 〃 〃 2.7kΩ
R310,312～315	J00245332	〃 〃 〃 〃 3.3kΩ
R303	J00245562	〃 〃 〃 〃 5.6kΩ
R324	J00245103	〃 〃 〃 〃 10kΩ
R307	J00245104	〃 〃 〃 〃 100kΩ
R320	J10276560	〃 composition ½W GK 56Ω
		CAPACITOR
C304	K00175101	Ceramic disc 50WV 100pF (DD105SL101J50V02)
C325	K02175101	Ceramic disc 50WV 100pF (DD107CH101J50V02)
C302,305,324	K10177103	Ceramic disc 50WV 0.01μF (DB205YB103M5L5)

PARTS LIST

C301,306,307,308, 311,312,315,316 321	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C309,310,313,314, 317,318,319,323, 327,328	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C303	K40120106	Electrolytic 16WV 10μF (16RL10)
		INDUCTOR
L312	L1190025	FL-5H 330K 33μH
L303～308,311	L1190020	FL-5H 151K 150μH
L302,310	L1190001	EL0710 251K 250μH
		TRANSFORMER
T301～303	L0020141	R12-4171

IF UNIT

Symbol No.	Parts No.	Description
	C0017040	IF unit with components
PB-1704C	F0001704C	P. C. Board
		FET & TRANSISTOR
Q408	G3090035	FET 2SK19TM-GR
Q401～404	G4800510C	〃 3SK51-03
Q407	G3105641	Transistor 2SA564A
Q409,411	G3318150G	〃 2SC1815GR
Q405	G3305350A	〃 2SC535A
Q412	G3319590Y	〃 2SC1959Y
Q406,410	G3318150Y	〃 2SC1815Y
		DIODE
D407	G2090029	Germanium 1N60
D401,408,411,412	G2090093	〃 (GB)1N270
D402～405,414～417	G2090118	〃 1SS97
D409,413	G2015550	Silicon 1S1555
D406,410	G2022090	Varactor 1S2209
		CRYSTAL
X402	H0100433	HC-18/U 19.7475MHz
X401	H0100432	〃 8.9875MHz
		CRYSTAL FILTER
XF402	H1100470	8.9M20A
XF401	H1100900	XF-10GS

		RESISTOR
R406,420,433,455	J00245101	Carbon film ¼W VJ 100Ω
R409	J01245101	〃 〃 〃 TJ 100Ω
R413	J01245181	〃 〃 〃 〃 180Ω
R414	J00245181	〃 〃 〃 VJ 180Ω
R442	J00245221	〃 〃 〃 〃 220Ω
R440	J00245331	〃 〃 〃 〃 330Ω
R443	J00245561	〃 〃 〃 〃 560Ω
R412	J00245681	〃 〃 〃 〃 680Ω
R402,407,408,415,418 416,444,451,454	J00245102	〃 〃 〃 〃 1kΩ
R405,434,445,418	J00245152	〃 〃 〃 〃 1.5kΩ
R425,432	J00245182	〃 〃 〃 〃 1.8kΩ
R423	J00245332	〃 〃 〃 〃 3.3kΩ
R410,411	J00245472	〃 〃 〃 〃 4.7kΩ
R435	J00245562	〃 〃 〃 〃 5.6kΩ
R419,450	J00245682	〃 〃 〃 〃 6.8kΩ
R403,404,417,421, 424,427,429～431, 447,448,453,456	J00245103	〃 〃 〃 〃 10kΩ
R438,439	J00245153	〃 〃 〃 〃 15kΩ
R422,428,437	J00245473	〃 〃 〃 〃 47kΩ
R436	J00245563	〃 〃 〃 〃 56kΩ
R441	J00245104	〃 〃 〃 〃 100kΩ
R452	J00245184	〃 〃 〃 〃 180kΩ
R446	J00245334	〃 〃 〃 〃 330kΩ
R426,449	J00245105	〃 〃 〃 〃 1MΩ
		POTENTIOMETER
VR402	J50710103	V10K-8-1-2 10kΩB
VR401	J50710504	〃 500kΩB
VR403	J50705501	EVN-A1A-A00B52 500ΩB
		CAPACITOR
C401,423,446,450	K00175101	Ceramic disc 50WV 100pF (DD105SL101J50V02)
C448	K02175470	Ceramic disc 50WV 47pF (DD106CH470J50V02)
C429	K02179013	Ceramic disc 50WV 33pF (DD105CH330J50V02)
C436	K06175101	Ceramic disc 50WV 100pF (DD106UJ101J50V02)
C437,438	K06175820	Ceramic disc 50WV 82pF (ECC-D1H820JU2)
C402,405～407,412, 413,417,418,421, 425,427,428	K10177103	Cerami c disc 50WV 0.01μF (DB205YB103M5L5)
C403,410,411,414, 415,419,424	K13170102	Ceramic disc 50WV 0.001μF (DB200YF102Z5L2)
C430	K13170222	Ceramic disc 50WV 0.0022μF (DB201YF222Z5L5)
C420,422,426,434, 439,440,443,451	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C404,408,409,416, 432,433,441,447, 456,452～454	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C444	K50177223	Mylar 〃 0.022μF (50F2U223M)
C442	K70127225	Tantalum 16WV 2.2μF (CS15E1C2R2M)

PARTS LIST

C431	K40170105	Electrolytic 16WV 1μF (50RL1)
C445,449	K40120106	Electrolytic 16WV 10μF (16RL10)
		INDUCTOR
L409	L1190019	FL-5H 150K 15μH
L401,402,405	L1190020	FL-5H 151K 150μH
L403,404,406,407, 410	L1190017	FL-5H 102K 1mH
L408	L0020145	VXO coil 5.2μH
		TRANSFORMER
T401	L0020187	
T402,403	L0020140	R12-4170
T404	L0020141	R12-4171
		RELAY
RL401	M1190018	UFM-10208 8V

AF UNIT

Symbol No.	Parts No.	Description
	C0017050	AF unit with components
PB-1705A	F0001705A	P. C. Board
		IC & TRANSISTOR
Q503	G1090110	IC TA7205AP
Q504	G1090077	〃 MC3403P
Q506	G1090123	〃 78L08
Q501,502,505,507	G330732G	Transistor 2SC732TM-GR
		RESISTOR
R523,536	J00245101	Carbon film ¼W VJ 100Ω
R516	J00245561	〃 〃 〃 〃 560Ω
R506	J00245681	〃 〃 〃 〃 680Ω
R507	J00245102	〃 〃 〃 〃 1kΩ
R512	J00245222	〃 〃 〃 〃 2.2kΩ
R504,539	J00245332	〃 〃 〃 〃 3.3kΩ
R513,514,537,538	J00245472	〃 〃 〃 〃 4.7kΩ
R510,511	J00245822	〃 〃 〃 〃 8.2kΩ
R543	J00245103	〃 〃 〃 〃 10kΩ
R503	J00245153	〃 〃 〃 〃 15kΩ
R530,545	J00245333	〃 〃 〃 〃 33kΩ
R508	J00245393	〃 〃 〃 〃 39kΩ
R502,509,515	J00245473	〃 〃 〃 〃 47kΩ
R534,540	J00245823	〃 〃 〃 〃 82kΩ
R517,520,522,525, 526,528,535,541	J00245104	〃 〃 〃 〃 100kΩ
R519,524,527	J00245124	〃 〃 〃 〃 120kΩ
R518,521,529	J00245224	〃 〃 〃 〃 220kΩ

R505	J00254151	Carbon film ¼W VJ 150Ω
		POTENTIOMETER
VR501	J61800006	GM-70R 1MΩB×2
		CAPACITOR
C512,519	K02179016	Ceramic disc 50WV 51pF (DD106CH510J50V02)
C535	K13170102	Ceramic disc 50WV 0.001μF (DB200YF102Z5L2)
C501,534	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C521	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C514	K30176391	Dipped mica 50WV 390pF (Z18D391K05)
C507	K50177472	Mylar 50WV 0.0047μF (50F2U472M)
C523,524	K50177682	Mylar 50WV 0.0068μF (50F2U682M)
C506	K50177103	Mylar 50WV 0.01μF (50F2U103M)
C516	K50177473	Mylar 50WV 0.047μF (50F2U473M)
C520,530,531,536	K50177104	Mylar 50WV 0.1μF (50F2U104M)
C502,503,509,511, 522,529,532,533	K40170105	Electrolytic 50WV 1μF (50RL1)
C504	K40140475	Electrolytic 25WV 4.7μF (25RL4R7)
C528	K41120106	Electrolytic 16WV 10μF (16TL10)
C513	K40100226	Electrolytic 10WV 22μF (10RL22)
C505,508	K40120226	Electrolytic 16WV 22μF (16RL22)
C525	K40100336	Electrolytic 10WV 33μF (10RL33)
C517	K40100476	Electrolytic 10WV 47μF (10RL47)
C515	K40100107	Electrolytic 10WV 100μF (10RL100)
C518	K40100477	Electrolytic 10WV 470μF (10RL470)
		HEAT SINK
	R0042800A	(TA-7205)

VOX/MARKER UNIT

Symbol No.	Parts No.	Description
	C0018460	VOX/Marker unit with components
PB-1846B	F0001846B	P. C. Board

PARTS LIST

		IC & TRANSISTOR
Q604	G1090068	IC MC14011B
Q612	G1090064	IC 4024PC
Q603	G3105641R	Transistor 2SA564A
Q602,608~610,615	G3318150G	Transistor 2SC1815GR
Q607	G3319590Y	Transistor 2SC1959Y
Q601,605,606,611	G3318150Y	Transistor 2SC1815Y
Q613,614	G3303800Y	〃 2SC380TM-Y
		DIODE
D601	G2090029	Germanium 1N60
D603,607~609	G2015550	Silicon 1S1555
D602,606	G2090010	Zener WZ090
D605	G2090093	Ge(GB) 1N270
		CRYSTAL
X601	H0100260	HC-6W 3200kHz
		RESISTOR
R616	J00245101	Carbon film ¼W VJ 100Ω
R643	J00245221	〃 〃 〃 〃 220Ω
R620,628	J00245471	〃 〃 〃 〃 470Ω
R605,614,625,626, 636,642,646~650	J00245102	〃 〃 〃 〃 1kΩ
R615,630,640,	J00245222	〃 〃 〃 〃 2.2kΩ
R637	J00245392	〃 〃 〃 〃 3.9kΩ
R604,606,632~634	J00245472	〃 〃 〃 〃 4.7kΩ
R627	J00245562	〃 〃 〃 〃 5.6kΩ
R601,602,607,608, 612,621	J00245103	〃 〃 〃 〃 10kΩ
R623,641,652,653	J00245103	〃 〃 〃 〃 10kΩ
R603,619,629,635, 639,644,645	J00245223	〃 〃 〃 〃 22kΩ
R624	J00245393	〃 〃 〃 〃 39kΩ
R638	J00245473	〃 〃 〃 〃 47kΩ
R613	J00245563	〃 〃 〃 〃 56kΩ
R618,631	J00245683	〃 〃 〃 〃 68kΩ
R622	J00245104	〃 〃 〃 〃 100kΩ
R609,610	J00245105	〃 〃 〃 〃 1MΩ
R651	J10276181	〃 composition ½W GK 180Ω
R611	J10246335	〃 〃 ¼W 〃 3.3MΩ
		POTENTIOMETER
VR603	J50710103	V10K-8-1-2 10kΩB
VR601	J50710503	〃 50kΩB
VR602	J50710504	〃 500kΩB
		CAPACITOR
C632	K00172030	Ceramic disc 50WV 3pF (DD104SL030C50V02)
C635	K00172040	Ceramic disc 50WV 4pF (DD104SL040C50V02)
C628	K02179011	Ceramic disc 50WV 27pF (DD104CH270J50V02)
C640	K00173100	Ceramic disc 50WV SL 10pF

C634	K00175101	Ceramic disc 50WV 100pF (DD105SL101J50V02)
C613	K13170102	Ceramic disc 50WV 0.001μF (DB200YF102Z5L2)
C603,620,626,629, 636	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C638	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C631	K30176271	Dipped mica 50WV 270pF (Z17D271K05)
C630	K30176511	Dipped mica 50WV 510pF (Z18D511K05)
C622~624	K50177223	Mylar 50WV 0.022μF (50F2U223M)
C608,610,616	K50177473	Mylar 50WV 0.047μF (50F2U473M)
C606	K70147105	Tantalum 25WV 1μF (CS15E1E010M)
C621	K70127225	Tantalum 16WV 2.2μF (CS15E1C2R2M)
C602,605	K70127106	Tantalum 16WV 10μF (CS15E1C100M)
C612,618	K70127226	Tantalum 16WV 22μF (CS15E1C220M)
C604,611,619	K40170105	Electrolytic 50WV 1μF (50RL1)
C627	K40170225	Electrolytic 50WV 2.2μF (50RL2R2)
C625	K40140475	Electrolytic 25WV 4.7μF (25RL4R7)
C601,609,615,617	K40120106	Electrolytic 16WV 10μF (16RL10)
C607,614	K40120106	Electrolytic 16WV 22μF (16RL22)
C637	K40120107	Electrolytic 16WV 100μF (16RL100)
		TRIMMER CAPACITOR
TC601	K91000020	ECV-1ZW 20×40 20pF
		SWITCH
S601	N6090012	27S120
		INDUCTOR
L601	L1190005	FL4H 1ROM 1μH

CARRIER UNIT

Symbol No.	Parts No.	Description
	C0017060	Carrier unit with components
PB-1706A	F0001706A	P. C. Board
		IC, FET & TRANSISTOR
Q705,706	G1090086	IC TA7063P
Q708	G1090068	IC MC14011B
Q702	G3090035	FET 2SK19TM-GR
Q704	G4800590Y	FET 3SK59Y
Q707	G3318150G	Transistor 2SC1815GR
Q710	G3303720G	Transistor 2SC732TM-GR
Q701,703,709	G331815Y	Transistor 2SC1815Y

PARTS LIST

		DIODE
D705～708	G2090118	Germanium (GB) 1SS97
D702～704,709～713, 715,719,720,724	G2015550	Silicon 1S1555
D716,718	G2090010	Zener WZ090
D721,722	G2090025	Zener WZ050
D701,723	G2090093	Germanium 1N270
		CRYSTAL
X701	H0100421	HC-18/U 8986kHz
X703	H0100422A	〃 8988.3kHz
X702	H0100423	〃 8989kHz
		RESISTOR
R749,753,754	J00245680	Carbon film ¼W VJ 68Ω
R747,752	J00245101	〃 〃 〃 VJ 100Ω
R729	J00245121	〃 〃 〃 VJ 120Ω
R704,707	J00245151	〃 〃 〃 〃 150Ω
R755	J00245181	〃 〃 〃 〃 180Ω
R708,709	J00245221	〃 〃 〃 〃 220Ω
R721,735	J00245331	〃 〃 〃 〃 330Ω
R710,738	J00245391	〃 〃 〃 〃 390Ω
R702	J00245471	〃 〃 〃 〃 470Ω
R701,718,727	J00245102	〃 〃 〃 〃 1kΩ
R715	J00245222	〃 〃 〃 〃 2.2kΩ
R717,728,745	J00245332	〃 〃 〃 〃 3.3kΩ
R705,706	J00245472	〃 〃 〃 〃 4.7kΩ
R751	J00245682	〃 〃 〃 〃 6.8kΩ
R720,731,734,737, 741,756,757	J00245103	〃 〃 〃 〃 10kΩ
R723	J00245153	〃 〃 〃 〃 15kΩ
R739,746,758	J00245223	〃 〃 〃 〃 22kΩ
R726	J00245333	〃 〃 〃 〃 33kΩ
R712,719,732	J00245393	〃 〃 〃 〃 39kΩ
R713,745	J00245473	〃 〃 〃 〃 47kΩ
R742	J00245563	〃 〃 〃 〃 56kΩ
R714,736	J00245823	〃 〃 〃 〃 82kΩ
R703,711,725	J00245104	〃 〃 〃 〃 100kΩ
R722,733	J00245154	〃 〃 〃 〃 150kΩ
R740,744	J00245105	〃 〃 〃 〃 1MΩ
R743	J10246335	〃 composition 〃 GK 3.3MΩ
		POTENTIOMETER
VR701	J50702201	EVL SOAA 00B22 200ΩB
VR702	J50702504	EVL SOAA 00B55 500kΩB
		CAPACITOR
C715	K00172020	Ceramic disc 50WV 2pF (DD104SL020C50V02)
C710	K02179008	Ceramic disc 50WV 20pF (DD104CH200J50V02)

C705,713	K02179011	Ceramic disc 50WV 27pF (DD104CH270J50V02)
C704	K02179012	Ceramic disc 50WV 30pF (DD105CH300J50V02)
C703	K02175390	Ceramic disc 50WV 39pF (DD105-275CH390J50V02)
C721,730	K00172101	Ceramic disc 50WV 100pF (DD105SL101J50V02)
C718,719	K00179020	Ceramic disc 50WV 240pF (DD107SL241J50V02)
C701,702,706,707, 711,712,714,716, 717,735,740,746, 748,751	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C739	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C708,709	K30176151	Dipped mica 50WV 150pF (Z17D151K05)
C723,732	K50177222	Mylar 50WV 0.0022μF (50F2U222M)
C720,724,727,734	K50177473	Mylar 50WV 0.047μF (50F2U473M)
C725,726,736,737, 741,749,752	K40170105	Electrolytic 50WV 1μF (50RL1)
C731,747	K40170225	Electrolytic 50WV 2.2μF (50RL2R2)
C728,733,754,742～ 744	K40120106	Electrolytic 16WV 10μF (16RL10)
C722,738	K40120226	Electrolytic 16WV 22μF (16RL22)
C750,753	K40120336	Electrolytic 16WV 33μF (16RL33)
C729	K40120476	Electrolytic 16WV 47μF (16RL47)
		TRIMMER CAPACITOR
TC701～704	K91000020	ECV-1ZW 20×40 20pF
TC705	K91000023	ECV-1ZW 50×40 50pF
		INDUCTOR
L705	L1190023	FL-5H 220K 22μH
L706	L1190001	EL-0710 251K 250μH
L707	L1190038	FL-5H 271K 270μH
L701～704	L1190017	FL-5H 102K 1mH
		TRANSFORMER
T701	L0020141	R12-4171
T702	L0020140	R12-4170
		RELAY
RL701	M1190002	FBR-211AD012M 12V

PARTS LIST

VFO UNIT

Symbol No.	Parts No.	Description
	C0014403	VFO assembly 3330
		VFO chassis
		VFO board
★★★★★VFO CHASSIS★★★★★		
		CAPACITOR
C801	K06173080	Ceramic disc 50WV UJ 8pF (DD104UJ080D50V02)
C803	K06175120	Ceramic disc 50WV UJ 12pF (DD104UJ120D50V02)
C804	K02175150	Ceramic disc 50WV CH 15pF (DD104CH150J50V02)
C805	K02175330	Ceramic disc 50WV CH 33pF (DD105CH330J50V02)
C824,826	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C802	K30209001	Dipped mica 50WV 1000pF (DM19D102K1)
C825	K70167334	Tantalum 35WV 0.33μF (CS15E1VR33M)
		VARIABLE CAPACITOR
VC801	K90000024	C521R-112
		TRIMMER CAPACITOR
TC801	K90000001	TSN-100D15 15pF
		INDUCTOR
L801	L0020268A	
L806	L1190001	EL0710-251K 250μH
		JACK
J802	P1090012	SI-6303-1
J801	P1090022	STR-01
	Q5000005	Lighthouse type terminal
★★★★★VFO BOARD★★★★★		
PB-1440B	F0001440B	Printed circuit board
	C9014403	PCB with components
		FET & TRANSISTOR
Q802	G3090035	FET 2SK19TM-GR
Q801,803	G3303800Y	Transistor 2SC380 TM-Y
		DIODE
D801	G2022360	Varactor 1S2236
		RESISTOR
R809,811	J00245101	Carbon film ¼W VJ 100Ω
R807	J00245221	〃 〃 〃 〃 220Ω
R805,808	J00245222	〃 〃 〃 〃 2.2kΩ
R802	J00245332	〃 〃 〃 〃 3.3kΩ
R801	J00245103	〃 〃 〃 〃 10kΩ
R803	J00245183	〃 〃 〃 〃 18kΩ
R804	J00245223	〃 〃 〃 〃 22kΩ
R806,810	J00245104	〃 〃 〃 〃 100kΩ
		CAPACITOR
C807	K30173080	Dipped mica 50WV 8pF (LCQ11080D05)
C814	K30176330	Dipped mica 50WV 33pF (Z11C330K05)
C809,810,812,815, 819,820	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C811	K30176181	Dipped mica 50WV 180pF (Z17D181K05)
C813	K30176431	Dipped mica 50WV 430pF (Z18D431K05)
C808,818	K30176390	Dipped mica 50WV 39pF (Z11C390K05)
C822	K30209001	Dipped mica 50WV 1000pF (DM19D102K1)
C821,823	K00175471	Ceramic 50WV SL 470pF (DD109SL471J50V02)
		TRIMMER CAPACITOR
TC802	K91000016	ECV-1ZW 50×32 50pF
		INDUCTOR
L804,805	L1190007	FL-4H 1R8M 1.8μH
L803	L1190001	EL0710-251K 250μH
L802	L1190040	S4 102K 1mH

PARTS LIST

FM UNIT

Symbol No.	Parts No.	Description
	C0017070	FM unit with components
PB-1707B	F0001707B	P. C. Board
		IC, FET & TRANSISTOR
Q904,909	G1090059	IC TA7061AP
Q914	G1090123	IC 78L08
Q911	G3800340E	FET 2SK34E
Q901	G4800510C	FET 3SK51-03
Q902,903,905,906, 907,908,910,912, 913	G3318150Y	Transistor 2SC1815Y
		DIODE
D902,903,905,906	G2001880F	Germanium 1S188FM
D901,907,910	G2015550	Silicon 1S1555
D908	G9090006	Varistor MV-13
D909	G2090040	Varactor FC-63
		CRYSTAL
X902	H0100440A	HC-18/U 8988.3kHz
X901	H0102275	HC-18/U 9442.5kHz
		CRYSTAL FILTER(OPTION)
XF901	H1102020	XF-8.9GF
		CERAMIC FILTER
CF901,902	H3900030	LFB-15
		CERAMIC DISCRIMIMNATOR
CFD901	H7900060	SFD-455-S4
		RESISTOR
R959	J00245100	Carbon film ¼W VJ 10Ω
R958	J00245560	〃 〃 〃 〃 56Ω
R914,916,917,937, 938,953,957	J00245101	〃 〃 〃 〃 100Ω
R923	J01245101	〃 〃 〃 TJ 100Ω
R922	J00245221	〃 〃 〃 VJ 220Ω
R915	J00245331	〃 〃 〃 〃 330Ω
R956	J00245471	〃 〃 〃 〃 470Ω
R936,944,952	J00245561	〃 〃 〃 〃 560Ω
R909	J00245681	〃 〃 〃 〃 680Ω
R913,933,939,943 963	J00245102	〃 〃 〃 〃 1kΩ
R906,918,929,934	J00245152	〃 〃 〃 〃 1.5kΩ
R905	J00245182	〃 〃 〃 〃 1.8kΩ
R901,902,945,960	J00245222	〃 〃 〃 〃 2.2kΩ
R910,935	J00245272	〃 〃 〃 〃 2.7kΩ
R903,926,927,946, 954	J00245332	〃 〃 〃 〃 3.3kΩ
R912	J00245392	〃 〃 〃 〃 3.9kΩ
R919,920,928,940, 942	J00245562	〃 〃 〃 〃 5.6kΩ
R908	J00245822	〃 〃 〃 〃 8.2kΩ

Symbol No.	Parts No.	Description
R947,950	J00245103	Carbon film ¼W VJ 10kΩ
R911	J00245183	〃 〃 〃 〃 18kΩ
R921,930,948,951 965,	J00245223	〃 〃 〃 〃 22kΩ
R955,964	J00245273	〃 〃 〃 〃 27kΩ
R904,907,949,961	J00245473	〃 〃 〃 〃 47kΩ
R932,941,962	J00245563	〃 〃 〃 〃 56kΩ
R924,925	J00245104	〃 〃 〃 〃 100kΩ
R931	J00245154	〃 〃 〃 〃 150kΩ
R927	J01245332	〃 〃 〃 TJ 3.3kΩ
R966	J01245152	〃 〃 〃 〃 1.5kΩ
		THERMISTOR
TH901	G9090001	SDT-250
		POTENTIOMETER
VR903	J50710202	V10-K8-1-2 2KB
VR901	J50710203	〃 20kΩB
VR902	J50710503	〃 50kΩB
		CAPACITOR
C968	K02179008	Ceramic disc 50WV 20pF (DD104CH200J50V02)
C901,902,903,913, 963	K13170102	Ceramic disc 50WV 0.001μF (DB200YF102Z5L2)
C904,905,909,910, 956,961,962,964, 966,971	K13170103	Ceramic disc 50WV 0.01μF (DB201YF473Z5L5)
C926,928,973	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C960	K30176200	Dipped mica 50WV 20pF (Z11C200K05)
C907	K30176470	Dipped mica 50WV 47pF (Z11C470K05)
C930	K30176101	Dipped mica 50WV 100pF (Z12D101K05)
C958,959	K30176121	Dipped mica 50WV 120pF (Z17D121K05)
C906,908	K30176151	Dipped mica 50WV 150pF (Z17D151K05)
C955	K30176221	Dipped mica 50WV 220pF (Z17D221K05)
C911,922,940	K50177102	Mylar 50WV 0.001μF (50F2U102M)
C949	K50177332	Mylar 50WV 0.0033μF (50F2U332M)
C944	K50177472	Mylar 50WV 0.0047μF (50F2U472M)
C929,931,933,965		Mylar 50WV 0.01μF (50F2U103M)
C923,924,925,938, 950,952	K50177223	Mylar 50WV 0.022μF (50F2U223M)
C941	K50177333	Mylar 50WV 0.033μF
		(50F2U333M)
C912,914,915,916, 918,919,932,951 967,970	K50177473	Mylar 50WV 0.047μF (50F2U473M)
C954	K50177104	Mylar 50WV 0.1μF (50F2U104M)

PARTS LIST

C936,939,947	K40170105	Electrolytic 50W 1μF (50RL1)
C934,935	K40140475	Electrolytic 25WV 4.7μF (25RL4R7)
C937,942,953	K40120106	Electrolytic 16WV 10μF (16RL10)
C945,946	K40120226	Electrolytic 16WV 22μF (16RL22)
C921,943,948	K40120476	Electrolytic 16WV 47μF (16RL47)
C972	K13170680	Celamic disc 50WV 68pF
		TRIMMER CAPACITOR
TC901	K91000019	ECV-1ZW 10×40 10pF
		INDUCTOR
L904,905	L1190020	FL-5H 151K 150μH
L901,902,903,906	L1190017	FL-5H 102K 1mH
		TRANSFORMER
T901	L0190002	
T902	L0020319	
T903	L0020140	R12-4170
T904	L0020210	

RECT. A UNIT

Symbol No.	Parts No.	Description
	C0017080	Rect. A unit with components
PB-1708	F0001708	P. C. Board
		DIODE
D1001,1002	G2090003	Silicon V06B
D1003,1004	G2090002	〃 10D10
D1005,1006	G2015550	〃 1S1555
		RESISTOR
R1009,1012	J00245472	Carbon film ¼W VJ 4.7kΩ
R1004,1005	J00245103	〃 〃 〃 〃 10kΩ
R1001	J10276102	〃 composition ½W GK 1kΩ
	J10276473	〃 〃 〃 〃 47kΩ
R1008	J00245563	Carbon film ¼W VJ 56kΩ
R1011	J00245225	〃 〃 〃 〃 2.2MΩ
R1003	J20306471	Metallic film 1W 470Ω
R1002	J20306562	〃 〃 〃 5.6kΩ
R1013	J20336473	〃 〃 2W 47kΩ
		POTENTIOMETER
VR1001	J50708103	V18K-3-2 10kΩB
		CAPACITOR
C1011,1012	K12279004	Ceramic disc 50WV 0.0047μF (ECKD2H472PE)
C1009,1010	K12279002	Ceramic disc 50WV 0.01μF (ECKD2H103PE)
C1013	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C1008	K30279059	Dipped mica 50WV 2200pF (DM19D222K5)
C1003~1006	K40240226	Electrolytic 250WV 22μF (250RH22)
C1001,1002	K41140338	Electrolytic 25WV 3300μF (25TL3300)
C1007	K70167224	Tantalum 35WV 0.22μF (CS15E1VR22M)
		AF CHOKE
CH1001	L2030064	

PLL UNIT

Symbol No.	Parts No.	Description
	C0017090	PLL unit with components
PB-1709A	F0001709A	P. C. Board
		IC, FET & TRANSISTOR
Q1102	G1090081	IC TA7310P
Q1106	G1090082	IC SN75450B
Q1107	G1090111	IC MC4044P (μPC1008C)
Q1111	G1090120	IC 78L05
Q1110	G1090123	IC 78L08
Q1104	G3090035	FET 2SK19TM-GR
Q1108	G3318150G	Transistor 2SC1815GR
Q1101,1103,1105,1109	G3318150Y	Transistor 2SC1815Y
		DIODE
D1101~1103	G2015550	Silicon 1S1555
		RESISTOR
R1126	J00245100	Carbon film ¼W VJ 10Ω
R1113	J00245560	〃 〃 〃 〃 56Ω
R1129	J00245680	〃 〃 〃 〃 68Ω
R1107,1128	J00245101	〃 〃 〃 〃 100Ω
R1103	J00245151	〃 〃 〃 〃 150Ω
R1105,1114,1121	J00245102	〃 〃 〃 〃 1kΩ
R1122	J00245152	〃 〃 〃 〃 1.5kΩ
R1110,1112,1115,1116 1118	J00245222	〃 〃 〃 〃 2.2kΩ
R1119,1120,1123,1124 1127	J00245472	〃 〃 〃 〃 4.7kΩ
R1111,1125	J00245223	〃 〃 〃 〃 22kΩ
R1104	J00245473	〃 〃 〃 〃 47kΩ
R1109	J00245683	〃 〃 〃 〃 68kΩ

PARTS LIST

R1117	J00245104	Carbon film ¼W VJ 100kΩ
		CAPACITOR
C1110,1113	K00175270	Ceramic disc 50WV 27pF (DD104SL270J50V02)
C1135	K00175330	Ceramic disc 50WV 33pF (DD104SL330J50V02)
C1116	K00175390	Ceramic disc 50WV 39pF (DD104SL390J50V02)
C1120	K00175470	Ceramic disc 50WV 47pF (DD104SL470J50V02)
C1112	K00175560	Ceramic disc 50WV 56pF (DD104SL560J50V02)
C1117	K00175101	Ceramic disc 50WV 100pF (DD105SL101J50V02)
C1105	K00175151	Ceramic disc 50WV 150pF (DD14SL151J50V02)
C1101,1102,1104,1109 1114,1118,1121	K13170102	Ceramic disc 50WV 0.001μF (DB200YF102Z5L2)
C1103,1107,1108,1115 1124~1126,1128, 1130,1131,1134,	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C1119	K50177104	Mylar 50WV 0.1μF (50F2U104M)
C1132,1133	K71137685	Noiselimiter 20WV 6.8μF (CC99E1D6R8M)
C1127.1129	K40120106	Electrolytic 16WV 10μF (16RL10)
		INDUCTOR
L1105	L1190015	FL-4H 120J 12μH
L1103,1104	L1190021	FL-5H 180K 18μH
L1106	L1190023	FL-5H 220K 22μH
L1108,1109,1111	L1190024	FL-5H 221K 220μH
L1101,1107,1110	L1190017	FL-5H 102K 1mH
		TRANSFORMER
T1101	L0020169	R12-4184
TP1101	Q5000011	Wrapping terminal C

VCO UNIT

Symbol No.	Parts No.	Description
	C0021660	VCO unit with components
PB-2166A	F0002166A	P. C. Board
		FET
Q1214	G4800510C	3SK51-03
Q1201~1210	G3090036	2SK19TM-BL
		TRANSISTOR
Q1211~1213	G3318150Y	2SC1815Y
		DIODE
D1201~1210	G2090043	MV104
D1211~1222	G2015550	1S1555
D1223,1224	G2090029	1N60
		RESISTOR
R1269	J00245220	Carbon film ¼W VJ 22Ω
R1270,1273	J00245270	〃 〃 〃 〃 27Ω
R1241	J00245470	〃 〃 〃 〃 47Ω
R1271,1274	J00245560	〃 〃 〃 〃 56Ω
R1201,1204,1207,1210 1213,1216,1219,1222 1225,1228,1229,1231 1234,1235,1237,1240 1243,1246,1249,1252 1255,1258	J00245101	〃 〃 〃 〃 100Ω
R1261,1262	J00245151	〃 〃 〃 〃 150Ω
R1223	J00245271	〃 〃 〃 〃 270Ω
R1205,1211,1217	J00245561	〃 〃 〃 〃 560Ω
R1265,1268	J00245102	〃 〃 〃 〃 1kΩ
R1206,1212,1218,1224 1230,1236,1242,1248 1254,1260	J00245222	〃 〃 〃 〃 2.2kΩ
R1266	J00245472	〃 〃 〃 〃 4.7kΩ
R1276	J00245562	〃 〃 〃 〃 5.6kΩ
R1267,1272	J00245473	〃 〃 〃 〃 47kΩ
R1264	J00245823	〃 〃 〃 〃 82kΩ
R1202,1203,1208,1209 1214,1215,1220,1221 1226,1227,1232,1233 1238,1239,1244,1245 1250,1251,1256,1257 1275	J00245104	〃 〃 〃 〃 100kΩ
R1263	J00245684	〃 〃 〃 〃 680kΩ
R1277	J01245560	〃 〃 〃 TJ 56Ω
		CAPACITOR
C1245,1253	K02179001	Ceramic disc 50WV 1pF (DD104CK010C50V02)
C1213,1221,1229	K02179003	Ceramic disc 50WV 2pF (DD104CK020C50V02)
C1261	K02172050	Ceramic disc 50WV 5pF (DD104CH050C50V02)
C1237	K02173100	Ceramic disc 50WV 10pF (DD104CH100D50V02)
C1269,1277	K02175120	Ceramic disc 50WV 12pF (DD104CH120J50V02)
C1243,1251	K02175150	Ceramic disc 50WV 15pF (DD104CH150J50V02)
C1227,1235,1259,1267 1275	K02179008	Ceramic disc 50WV 20pF (DD104CH200J50V02)
C1230,1238,1246,1254 1262,1270,1278	K02175470	Ceramic disc 50WV 47pF (DD106CH470J50V02)
C1250	K06172050	Ceramic disc 50WV 5pF (ECC-D1H050CU)
C1268,1276	K06175150	Ceramic disc 50WV 15pF (ECC-D1H150JU)

PARTS LIST

C1212	K06179004	Ceramic disc 50WV 20pF (DD104UJ 200J50V02)
C1228,1236,1244,1260	K06175220	Ceramic disc 50WV 22pF (ECC-D1H220JU)
C1252	K06179005	Ceramic disc 50WV 24pF (DD104UJ240J50V02)
C1219,1220	K06175270	Ceramic disc 50WV 27pF (ECC-D1H270JU)
C1204,1211	K06175390	Ceramic disc 50WV 39pF (DD104UJ390J50V02)
C1206,1214,1222	K06175470	Ceramic disc 50WV 47pF (ECC-D1H470JU2)
C1201,1202,1208～1210,1216～1218,1224～1226,1232～1234,1240～1242,1248～1250,1256～1258,1264～1266,1272～1274,1280,1281,1283,1286,1290	K13170102	Ceramic disc 50WV 0.001μF (DB200YF102Z5L2)
C1207,1215,1223,1231,1239,1247,1255,1263,1271,1279,1282,1284,1285,1287,1289,1291,1292,1293,	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C1288	K40129004	Ceramic disc 16WV 10μF (16RE10)
C1294	K70127106	Tantalum 16WV 10μF
C1203	K06175101	Ceramic disc 50WV 100pF
		TRANSFORMER
T1201,1202	L0020294	
T1203,1204	L0020297	
T1205,1206	L0020295	
T1207～1210	L0020296	
		INDUTOR
L1201～1211	L1190024	FL5H 221K 220μH
XTAL UNIT		
Symbol No.	Parts No.	Description
	C0021650	XTAL unit with components
PB-2165	F0002165	P. C. Board
		TRANSISTOR
Q1301～1312	G3303800Y	2SC380Y
		DIODE
D1301～1312	G2015550	1S1555
		CRYSTAL
X1301	H0100411	15.9875MHz
X1302	H0100412	17.9875MHz

X1303	H0100413	21.4875MHz
X1304	H0102321	24.4875MHz
X1305	H0100414	28.4875MHz
X1306	H0102322	32.4875MHz
X1307	H0100415	35.4875MHz
X1308	H0102323	38.9875MHz
X1309	H0100416	42.4875MHz
X1310	H0100417	42.9875MHz
X1311	H0100418	43.4875MHz
X1312	H0100419	43.9875MHz
		RESISTOR
R1339,1344,1349,1354,1359	J00245470	Carbon film ¼W VJ 47Ω
R1304,1305,1310,1315,1320,1325,1330,1334,1335,1340,1345,1350,1355,1360	J00245101	〃 〃 〃 〃 100Ω
R1329	J00245151	〃 〃 〃 〃 150Ω
R1324	J00245221	〃 〃 〃 〃 220Ω
R1319	J00245271	〃 〃 〃 〃 270Ω
R1309,1314	J00245331	〃 〃 〃 〃 330Ω
R1303,1308,1313,1318,1323,1328,1333,1338,1343,1348,1353,1358	J00245561	〃 〃 〃 〃 560Ω
R1361	J00245681	〃 〃 〃 〃 680Ω
R1301,1306,1311,1316,1321,1326,1331,1336,1341,1346,1351,1356	J00245332	〃 〃 〃 〃 3.3kΩ
R1302,1307,1312,1317,1322,1327,1332,1337,1342,1347,1352,1357	J00245153	〃 〃 〃 〃 15kΩ
		CAPACITOR
C1301,1306,1311,1316,1321,1326,1331,1336,1341,1346,1351,1356	K02173080	Ceramic disc 50WV 8pF (DD104CH080D50V02)
C1343,1348,1353,1358	K02179013	Ceramic disc 50WV 33pF (DD105CH330J50V02)
C1322,1327,1332,1337,1342,1347,1352,1357	K02175390	Ceramic disc 50WV 39pF (DD105-257CH390J50V02)
C1328,1333,1338	K02175470	Ceramic disc 50WV 47pF (DD106CH470J50V02)
C1312,1317	K02175680	Ceramic disc 50WV 68pF (DD107CH680J50V02)
C1323	K02175820	Ceramic disc 50WV 82pF DD107CH820J50V02)
C1307	K02175101	Ceramic disc 50WV 100pF (DD107CH101J50V02)
C1318	K02175121	Ceramic disc 50WV 120pF (DD109CH121J50V02)
C1302,1313	K02175151	Ceramic disc 50WV 150pF (DD109CH151J50V02)
C1361	K13170102	Ceramic disc 50WV 0.001μF (DB200YF102Z5L5)
C1304,1305,1309,1310,1314,1315,1319,1320,1324,1325,1329,1330,1334,1335,1339,1340,1354,1355,1359,1360,1344,1345,1349,1350	K03170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)

PARTS LIST

C1308	K30176221	Dipped mica 50WV 220pF (Z17D221K05)
C1303	K30176271	Dipped mica 50WV 270pF (Z17D271K05)
		TRANSFORMER
T1301～1312	L0020017	
		CONNECTOR
J1301	P0090056	5048-17A
		CRYSTAL SOCKET
XS1301～1312	P3090002	S2-101P-00

RECT.B BOARD

Symbol No.	Parts No.	Description
	C0017120	Rect. B board with components
PB-1712A	F0001712A	P. C. Board
		DIODE
D1401～1404	G2090002	Silicon 10D10
		RESISTOR
R1401～1406	J10276474	Carbon composition ½W GK 470kΩ
	Q5000011	Wrapping terminal C

CAPACITOR BOARD

Symbol No.	Parts No.	Description
	C0017130	Capacitor board with components
PB-1713	F0001713	P. C. Board
		CAPACITOR
C1501,1502	K43270002	Electrolytic 500WV 100μF (CE-62L500L100)

DRIVER BOARD

Symbol No.	Parts No.	Description
	C0017141	Driver board with components (without vacuum tube)
PB-1714A	F0001714A	P. C. Board
		VACUUM TUBE
V1601	G6090002	12BY7A
		VACUUM TUBE SOCKET
VS1601	P3090022	SB-9403
		RESISTOR
R1605	J10276470	Carbon composition ½W GK47Ω
R1062(L1602),1604	J10276560	〃 〃 〃 〃 56Ω
R1603	J10276101	〃 〃 〃 〃 100Ω
R1601	J10276473	〃 〃 〃 〃 47kΩ
		CAPACITOR
C1601,1602	K12279002	Ceramic disc 500WV 0.01μF (ECKD2H103PE)
C1603,1604,1606	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C1605	K30279051	Dipped mica 500WV 1000pF (DM19D102K5)
		INDUCTOR
L1601	L1190020	FL-5H 151K 150μH
L1602(R1602)	L1020307	
	Q5000011	Wrapping terminal

FINAL BOARD

Symbol No.	Parts No.	Description
	C0017152	Final board with components (without vacuum tube)
PB-1715B	F0001715B	P. C. Board
		VACUUM TUBE
V1701,1702	G6090001	6146B
		DIODE
D1701	G2090002	Silicon 10D10
		VACUUM TUBE SOCKET
VS1701,1702	P3090024	SB-3606

PARTS LIST

		RESISTOR
R1701,1702	J10276560	Carbon composition ½W GK 56Ω
(L1702,1703)		
R1703,1704,1705	J10276101	〃 〃 〃 〃 100Ω
R1706	J32009007	Meter shunt 0.847Ω±3%
R1707	J20356153	Metallic film 3W 15kΩ
		CAPACITOR
C1703	K12279001	Ceramic disc 500WV 0.001μF (ECKD2H102PE)
C1704,1710	K12279002	Ceramic disc 500WV 0.01μF (ECKD2H103PE)
C1705~1709,1711, 1712	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C1702	K30273050	Dipped mica 500WV 5pF (LCQ11050D5)
C1701	K31306101	Moulded mica 1kWV 100pF (CML1-101K10)
		INDUCTOR
L1701	L1190020	FL-5H 151K 150μH
L1704	L1190039	FL-5H 561K 560μH
L1702,1703 (R1701,1702)	L1020307	
	Q5000011	Wrapping terminal C

RECT. C UNIT

Symbol No.	Parts No.	Description
	C0017170	Rect. C unit with components
PB-1717A	F0001717A	P. C. Board
		IC. TRANSISTOR
Q1801	G1090036	IC TA7089M
Q1804	G3106390	Transistor 2SA639
Q1803	G3107330	〃 2SA733
Q1805,1806	G3318150G	〃 2SC1815GR
		DIODE
D1802,1809	G2090002	Silicon 10D10
D1803~1808	G2015550	〃 1S1555
D1801	G2090081	SM1-12
		RESISTOR
R1810	J00245479	Carbon film ¼W VJ 4.7Ω
R1815	J00245471	〃 〃 〃 〃 470Ω
R1812	J00245472	〃 〃 〃 〃 4.7kΩ
R1813,1814,1817,1818	J00245103	〃 〃 〃 〃 10kΩ
R1816,1820	J00245223	Carbon film ¼W VJ 22kΩ
R1801,1802,1804,1805	J10276184	Carbon composition ½W GK 180kΩ
R1819	J20306390	Metallic film 1W GK 39Ω
R1803	J20336391	〃 〃 2W 390Ω
R1809	J20336471	〃 〃 2W 470Ω
R1808	J20356332	〃 〃 3W 3.3kΩ
R1806	J20356153	〃 〃 〃 15kΩ
R1807	J20356473	〃 〃 〃 47kΩ
		POTENTIOMETER
VR1801	J50711502	V10K-8-1-2 5kΩB
		CAPACITOR
C1801,1807,1812	K12279004	Ceramic disc 500WV 0.0047μF (ECKD2H472PE)
C1810	K50177223	Mylar 50WV 0.022μF (50F2U223M)
C1811	K40120106	Electrolytic 16WV 10μF (16RL10)
C1806	K41240106	Electrolytic 250WV 10μF (250TL10)
C1808,1809	K40260226	Electrolytic 350WV 22μF (350RH22)
C1802~1805	K40240476	Electrolytic 250WV 47μF (250RH47)

SELECT SWITCH BOARD

Symbol No.	Parts No.	Description
	C0017180	Select switch board with components
PB-1718C	F0001718C	P. C. Board
		TRANSISTOR
Q1901,1902	G3318150Y	Transistor 2SC1815Y
		DIODE
D1901,1902	G2090001	Silicon 10D1
		RESISTOR
R1901,1902	J00245103	Carbon film ¼W VJ 10kΩ
		CAPACITOR
C1901	K40120106	Electrolytic 16WV TW 10μF (16RL10)

PARTS LIST

		RELAY
RL1901,1902	M1190002	FBR211AD012M 12V
		SWITCH
S1901～1906	N4090014	6B0002CC2060
	Q5000011	Wrapping terminal C

LEVER SWITCH BOARD

Symbol No.	Parts No.	Description
	C0017190	Lever switch board with components
PB-1719B	F0001719B	P. C. Board
		RESISTOR
R2001	J01245821	Carbon film ¼W TJ 820Ω
		SWITCH
S2001	N3090004	SLE62251
S2002	N3090006	SLE64301
S2003,2004,2005	N3090002	SLE62301

TUNE SWITCH BOARD

Symbol No.	Parts No.	Description
	C0017200	Tune switch board with components
PB-1720B	F0001720B	P. C. Board
		TRANSISTOR
Q2102,2103	G3107330	Transistor 2SA733
Q2101	G3318150Y	〃 2SC1815Y
		DIODE
D2101～2103	G2090060	LED GD4-203SRD
D2104,2108	G2090001	Silicon 10D1
D2105～2107,2109～2112	G2015550	〃 1S1555
		RESISTOR
R2105,2107	J00245560	Carbon film ¼W VJ 56Ω
R2106	J00245221	〃 〃 〃 〃 220Ω
R2111	J00245821	〃 〃 〃 〃 820Ω
R2102	J00245102	〃 〃 〃 〃 1kΩ
R2101,2104,2108	J00245152	〃 〃 〃 〃 1.5kΩ
R2103	J00245472	〃 〃 〃 〃 4.7kΩ
R2112,2113	J00245103	Carbon film ¼W VJ 10kΩ
R2109	J01245123	〃 〃 〃 TJ 12kΩ
R2110	J00245223	〃 〃 〃 VJ 22kΩ
		POTENTIOMETER
VR2101	J50710471	V10K-8-1-2 470ΩB
		CAPACITOR
C2102	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C2101	K40120107	Electrolytic 16WV 100μF (16RL100)
		RELAY
RL2101,2102	M1190002	FBR211AD012M 12V
		SWITCH
S2101～2105	N4090007	5B0001FC2060
	Q5000011	Wrapping terminal C

LED. A BOARD

Symbol No.	Parts No.	Description
	C0017210	LED A board with components
PB-1721B	F0001721B	P. C. Board
		DIODE
D2201～2206	G2090060	LED GD4-203SRD
		RESISTOR
R2203	J01245271	Carbon film ¼W TJ 270Ω
R2202	J01245821	〃 〃 〃 〃 820Ω
R2201	J01245152	〃 〃 〃 〃 1.5kΩ

REJECT SWITCH BOARD

Symbol No.	Parts No.	Description
	C0017220	Reject switch board with components
PB-1722B	F0001722B	P. C. Board
		DIODE
D2301	G2090060	LED GD4-203SRD

PARTS LIST

		RESISTOR
R2301	J00245152	Carbon film ¼W VJ 1.5kΩ
		POTENTIOMETER
VR2301	J50710502	V10K-8-1-2 5kΩB
		SWITCH
S2301	N4090008	1B0001AC2060

TRIMMER. A BOARD

Symbol No.	Parts No.	Description
	C0021900	Trimmer board A with components
PB-2190	F0002190	P. C. Board
		TRANSISTOR
Q2401	G3319590Y	Transistor 2SC1959Y
Q2402	G3318150Y	〃 2SC1815Y
		DIODE
D2402	G2015550	Silicon 1S1555
		RESISTOR
R2401, 2402	J00245103	Carbon film ¼W VJ 10kΩ
		CAPACITOR
C2407	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C2409	K30176100	Dipped mica 50WV 10pF (Z11C100K05)
C2405, 2412	K30176120	Dipped mica 50WV 12pF (Z11C120K05)
C2403, 2404, 2411	K30176680	Dipped mica 50WV 68pF (Z11D680K05)
C2402	K30176271	Dipped mica 50WV 270pF (Z17D271K05)
C2401	K30176821	Dipped mica 50WV 820pF (LCQ18821K05)
C2406	K40120336	Electrolytic 16WV 33μF (16RL33)
C2410	K30209001	Dipped mica 50WV 1000pF
		TRIMMER CAPACITOR
TC2401	K91000078	BW6P-1 420pF
TC2406	K9000030	ECV-1ZW 20×53 20pF
TC2402～2405	K91000016	ECV-1ZW 50×32 50pF
TC2408, 2409, 2410	K91000030	ECV-1ZW 40×53 40pF
		TRANSFORMER
T2401	L0020303A	
T2402	L0020545	

TRIMMER. B BOARD

Symbol No.	Parts No.	Description
	C0021910	Trimmer B board with components
PB-2191	F00021910	P. C. Board
		RESISTOR
		CAPACITOR
C2503, 2508, 2509	K30176330	Dipped mica 50WV 33pF (Z11C330K05)
C2504, 2506	K30176680	Dipped mica 50WV 68pF (Z11D680K05)
C2502	K30176271	Dipped mica 50WV 270pF (Z17D271K05)
C2501	K30176821	Dipped mica 50WV 820pF (LCQ18821K05)
C2507	K30176101	Dipped mica 50WV 100pF
		TRIMMER CAPACITOR
TC2501	K91000078	BW6P-1 420pF
TC2502～2505	K91000016	ECV-1ZW 50×32 50pF
TC2506, 2508	K91000028	ECV-1ZW 10×53 10pF
TC2509, 2510	K91000030	ECV-1ZW 40×53 40pF
		TRANSFORMER
T2501	L0020303A	

TRIMMER. C BOARD

Symbol No.	Parts No.	Description
	C0010922	Trimmer C board with components
PB-1092-3330	F2001092	P. C. Board
		RESISTOR
R2601	J10276333	Carbon composition ½W 33kΩ

PARTS LIST

		CAPACITOR
C2605	K30276100	Dipped mica 500WV 10pF (LCQ11100D5)
C2603	K30276300	Dipped mica 500WV 30pF (LCQ12300K5)
C2604	K30276510	Dipped mica 500WV 50pF (LCQ12510K5)
C2602	K30276221	Dipped mica 500WV 220pF (LCQ17221K5)
C2601	K30276821	Dipped mica 500WV 820pF (LCQ18821K5)
C2607	K30276330	Dipped mica 500WV 33pF
C2606	K30276101	〃 〃 〃 100pF
		TRIMMER CAPACITOR
TC2603～2605	K91000031	B-1P1 40pF
TC2602	K91000032	B-2PY 100pF
TC2601	K91000078	BW6P-1 420pF

KEYER UNIT

Symbol No.	Parts No.	Description
	C0017280	Keyer unit with components
PB-1728A	F0001728A	P. C. Board
		IC & TRANSISTOR
Q2701	G1090233	IC 8044
Q2702	G3318150Y	Transistor 2SC1815Y
		DIODE
D2701～2706	G2090029	Germanium 1N60
		RESISTOR
R2705	J00245102	Carbon film ¼W VJ 1kΩ
R2704	J00245332	〃 〃 〃 〃 3.3kΩ
	J00245472	〃 〃 〃 〃 4.7kΩ
R2709, 2710	J00245103	〃 〃 〃 〃 10kΩ
R2701, 2702, 2707	J00245104	〃 〃 〃 〃 100kΩ
		POTENTIOMETER
VR2702	J51723104	SR19R 100kΩB
		CAPACITOR
C2703	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C2701, 2702	K50177104	Mylar 50WV 0.1μF (50F2U104M)

C2705	K70167224	Tantalum 35WV 0.22μF (CS15E1VR22M)
C2706, 2707	K70167334	〃 〃 0.33μF (CS15E1VR33M)
C2704	K40120226	Electrolytic 16WV 22μF (16RL22)
		MINI CONNECTOR
J2701	P0090037	5048-8A

MEMORY UNIT

Symbol No.	Parts No.	Description
	C0017870	Memory board with components
PB-1787E	F0001787E	P. C. Board
		IC, FET & TRANSISTOR
Q2820	G1090099	IC LM308
Q2821	G1090087	IC MC4044P (μPC1008C)
Q2822～2826	G1090051	IC MC14042B
Q2812	G1090097	IC MM74C90
Q2811	G1090096	IC MSM5562
Q2818	G1090120	IC NJM78L05
Q2816, 2817	G1090123	IC NJM78L08
Q2813	G1090092	IC SN74LS00N
Q2814, 2833	G1090093	IC SN74LS04N
Q2832	G1090100	IC SN74LS123N
Q2827～2831	G1090019	IC SN74LS192N
Q2815	G1090098	IC TC5032P
Q2819, 2834	G1090065	IC μPC14305
Q2801, 2802, 2805, 2806	G3090020	FET JF1033B
Q2809	G4800510C	FET 3SK51-03
Q2807	G3318150Y	Transistor 2SC1815Y
Q2803, 2804, 2810	G3307850O	Transistor 2SC785O
Q2808	G3090005	Transistor MPS A13
		DIODE
D2804, 2805	G2001880F	Germanium 1S188FM
D2801～2803	G2015550	Silicon 1S1555
D2806, 2807	G2090043	Varactor MV104
D2808	G2090047	Zener WZ060
		CRYSTAL
X2801	H0100570	HC-18/U 3276.8kHz
		RESISTOR
R2863	J00245279	Carbon film ¼W VJ 2.7Ω
R2860	J00245339	〃 〃 〃 〃 3.3Ω
R2825	J00245220	〃 〃 〃 〃 22Ω
R2805, 2808, 2822, 2824	J00245101	〃 〃 〃 〃 100Ω

PARTS LIST

R2813	J00245121	Carbon film	¼W VJ	120Ω
R2809,2821	J00245221	〃 〃	〃 〃	220Ω
R2804,2817	J00245391	〃 〃	〃 〃	390Ω
R2826,2831,2840	J00245471	〃 〃	〃 〃	470Ω
R2835	J00245102	〃 〃	〃 〃	1kΩ
R2815	J00245122	〃 〃	〃 〃	1.2kΩ
R2818,2834,2849	J00245152	〃 〃	〃 〃	1.5kΩ
R2842,2855	J00245272	〃 〃	〃 〃	2.7kΩ
R2832,2837	J00245332	〃 〃	〃 〃	3.3kΩ
R2810,2843,2857,2861	J00245472	〃 〃	〃 〃	4.7kΩ
R2853	J00245562	〃 〃	〃 〃	5.6kΩ
R2827,2848	J00245822	〃 〃	〃 〃	8.2kΩ
R2844,2846,2847,2850 ~2852	J00245103	〃 〃	〃 〃	10kΩ
R2811	J00245123	〃 〃	〃 〃	12kΩ
R2828,2829	J00245153	〃 〃	〃 〃	15kΩ
R2838	J00245223	〃 〃	〃 〃	22kΩ
R2812,2858,2859	J00245333	〃 〃	〃 〃	33kΩ
R2836	J00245473	〃 〃	〃 〃	47kΩ
R2803,2806,2820	J00245563	〃 〃	〃 〃	56kΩ
R2854,2862	J00245823	〃 〃	〃 〃	82kΩ
R2801,2802,2814,2816 2823,2830,2833,2839 2841,2856	J00245104	〃 〃	〃 〃	100kΩ
R2807,2819	J00245334	〃 〃	〃 〃	330kΩ
R2845	J00245394	〃 〃	〃 〃	390kΩ
R2864	J01245102	〃 〃	〃 TJ	1kΩ
R2865	J01245472	〃 〃	〃 〃	4.7kΩ
		POTENTIOMETER		
VR2801,2802	J51724103	PN822H103H		10kΩB
		CAPACITOR		
C2804	K06173100	Ceramic disc (ECC-D1H100DU)	50WV	10pF
C2807	K02179010	Ceramic disc (DD104CH240J50V02)	50WV	24pF
C2828	K02175390	Ceramic disc (DD105-257CH390J50V02)	50WV	39pF
C2827	K02175470	Ceramic disc (DD106CH470J50V02)	50WV	47pF
C2803	K06175470	Ceramic disc (ECC-D1H470JU2)	50WV	47pF
C2805	K02175820	Ceramic disc	50WV	82pF
C2849	K00175101	Ceramic disc (DD105SL101J50V02)	50WV	100pF
C2802	K06175271	Ceramic disc (ECC-D1H271JU2)	50WV	270pF
C2821,2823	K10179011	Ceramic disc (2222-660-02471)	50WV	470pF
C2822	K14179001	Ceramic disc (RD200YZ102P50V)	50WV	0.001μF
C2801,2806,2808,2811 2813~2815,2818~ 2820,2829~2832, 2839,2856,2859,2867	K14179002	Ceramic disc (RD204YM103Z50V)	50WV	0.01μF
C2868,2869,2871	K13170473	Ceramic disc (DB207YF473Z5L5)	50WV	0.047μF
C2810	K30173050	Dipped mica (LCQ11050D05)	50WV	5pF

C2860	K30176150	Dipped mica (Z11C150K05)	50WV	15pF
C2816	K30176470	Dipped mica (Z11C470K05)	50WV	47pF
C2812,2817	K30176510	Dipped mica (Z11D510K05)	50WV	51pF
C2834	K50177332	Mylar (50F2U332M)	50WV	0.0033μF
C2837	K50177473	Mylar (50F2U473M)	50WV	0.047μF
C2847,2848,2853	K50177104	Mylar (50F2U104M)	50WV	0.1μF
C2861	K70167334	Tantalum (CS15E1VR33M)	35WV	0.33μF
C2842,2843,2852	K70147105	Tantalum (CS15E1E010M)	25WV	1μF
C2844	K70167225	Tantalum (CS15E1V2R2M)	35WV	2.2μF
C2851	K70127335	Tantalum (CS15E1C3R3M)	16WV	3.3μF
C2850	K40089006	Electrolytic (6.3RE330)	6.3WV	330μF
C2845	K40140475	Electrolytic (25RL4R7)	25WV	4.7μF
C2826	K40120106	Electrolytic (16RL10)	16WV	10μF
C2825	K40120336	Electrolytic (16RL33)	16WV	33μF
C2824	K40100476	Electrolytic (10RL47)	10WV	47μF
C2809,2838,2841,2854 2855,2857,2858,2866	K40129001	Electrolytic (16RL330)	16WV	330μF
C2870	K41120108	Electrolytic (16TL1000)	16WV	1000μF
C2862~2865	K31170002	Feed thru (ECKY1H-102WE)	50WV	0.001μF
C2833,2835,2836	K51176331	Styrol (50SU331K)	50WV	330pF
		TRIMMER CAPACITOR		
TC2801	K91000030	ECV-1ZW	40×53	40pF
		INDUCTOR		
L2802,2805,2807	L1190017	FL-5H 102K		1mH
L2803,2804	L1190007	FL-4H 1R8M		1.8μH
L2801	L1190038	FL-5H 271K		270μH
L2806	L1020012			35μH
		TRANSFORMER		
T2801	L0020332A			

P2901	T9202430B	5047-06

DIODE SWITCH BOARD

Symbol No.	Parts No.	Description
	C0017260	Diode switch board with components
PB-1726A	F0001726A	P. C. Board
		FET
Q3101,3102	G3090035	2SK19TM-GR
		DIODE
D3102	G2090093	Germanium 1N270
D3101,3103	G2015550	Silicon 1S1555
		RESISTOR
R3101	J00245151	Carbon film ¼W VJ 150Ω
R3105~3107	J00245561	〃 〃 〃 〃 560Ω
R3110	J00245102	〃 〃 〃 〃 1kΩ
R3108	J00245222	〃 〃 〃 〃 2.2kΩ
R3109	J00245332	〃 〃 〃 〃 3.3kΩ
R3102~3104	J00245103	〃 〃 〃 〃 10kΩ
		CAPACITOR
C3104,3105,3109~3112	K13070103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C3113	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C3101,3103	K30176471	Dipped mica 50WV 470pF (Z18D471K05)
C3102	K30209001	Dipped mica 50WV 1000pF (DM19D102K1)
C3106,3107,3108	K40120106	Electrolytic 16WV TW 10μF (16RL10)
		INDUCTOR
L3101,3102	L1190008	FL-4H-2R8M 2.2μH
L3103	L1190038	FL-5H 271K 270μH
	Q5000011	Wrapping terminal C

DC-DC CONVERTER UNIT

Symbol No.	Parts No.	Description
		TRASISTOR
Q3201,3202	G3090002	T20A6 with insulator
		RESISTOR
R3202	J31306339	Wire wound 1W 3.3Ω
R3201	J20376221	Metallic film 5W 220Ω
		CAPACITOR
C3202	K52247474	Metallized paper 250WV 0.47μF
C3201	K41140227	Electrolytic 25WV 220μF (25TL220)
		CONNECTOR
P3201	P0090066	AC9M

ACCESSORIES

Symbol No.	Parts No.	Description
	M3090004	Microphone YE7A with Microphone hanger screws.
	P1090020	Microphone plug FM-144P
		AC Power cord
	T9003680	2 wire, 2 prong plug
	T9003682	3 wire, 3 prong UL plug
	T9003683	3 wire, 3 prong Australia plug
	T9003684	3 wire, 2 porong EU plug
	P1090092	power plug QS-A-P12FL
	T9003720	DC Power cord
	P1090092	power plug QS-A-P12FL
	Q0000009	DC Fuse 20A
	P0090008	Key plug SH3603
	P0090007	Phone plug SH3001
	P0090034	External speaker plug P2240
	P0090019	Antenna plug SO259
	P0090035	ACC plug PA-602B04
	P0090018	RCA pin plug CN7017
	Q0000005	AC Fuse 5A(100V~117V)
	Q0000004	3A(200V~234V)

PARTS LIST

COUNTER UNIT		
Symbol No.	Parts No.	Description
	C0020863	3330 Counter unit Assembly
PB-2086A	C9020863	Main P. C. Board
PB-2098A	C9020983	Display P. C. Board
★★★★★ COUNTER MAIN BOARD ★★★★★		
	C9020863	Main board with components
PB-2086A	F0002086A	Counter main Board
		IC
Q3012	G1090249	MSM9520RS
Q3005	G1090065	μPC14305
Q3020	G1090079	μPA54H
		FET
Q3001	G3800730	3SK73
		TRANSISTOR
Q3003	G331674L	2SC1674L
Q3004	G3318150G	2SC1815GR
Q3006~3011,3013 ~3019	G3109520L	2SA952L
Q3021	G3104960Y	2SA496Y
		DIODE
D3001~3013	G2015550	1S1555
		CRYSTAL
X3001	H0102272	6. 5536MHz
		RESISTOR
R3012	J00245100	Carbon film ¼W VJ 10Ω
R3031,3034,3037,3040 3043,3046,3049	J00245330	〃 〃 〃 〃 33Ω
R3050	J00245560	〃 〃 〃 〃 56Ω
R3001	J01245560	〃 〃 〃 TJ 56Ω
R3008,3018,3020,3022 3024,3026,3028	J00245101	〃 〃 〃 VJ 100Ω
R3007,3010,3011	J00245221	〃 〃 〃 〃 220Ω
R3052	J00245331	〃 〃 〃 〃 330Ω
R3051	J00245471	〃 〃 〃 〃 470Ω
R3017,3019,3021,3023 3025,3027	J01245102	〃 〃 〃 TJ 1kΩ
R3036,3039,3042,3045 3048,3030,3033	J00245102	〃 〃 〃 VJ 1kΩ
R3029,3032,3035,3038 3041,3044,3047	J00245152	〃 〃 〃 〃 1.5kΩ
R3002,3015	J00245562	〃 〃 〃 〃 5.6kΩ
R3013	J00245103	〃 〃 〃 〃 10kΩ
R3009	J00245473	〃 〃 〃 〃 47kΩ
R3004	J01245473	〃 〃 〃 TJ 47kΩ

R3016	J00245104	Carbon film ¼W VJ 100kΩ
R3014	J01245104	〃 〃 〃 TJ 100kΩ
		CAPACITOR
C3024	K02179008	Ceramic disc 50WV 20pF (DD104CH200J50V02)
C3025	K02175820	Ceramic disc 50WV 82pF (DD107CH820J50V02)
C3020	K02175101	Ceramic disc 50WV 100pF (DD107CH101J50V02)
C3001,3004	K13170102	Ceramic disc 50WV 0.001μF (DB200YF102Z5L2)
C3002,3005,3008,3009 3011,3012,3014,3015 3017,3019,3026~ 3030,3021	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C3010,3013,3018	K40120106	Electrolytic 16WV 10μF (16RL10)
C3016	K40129001	Electrolytic 16WV 330μF (16RE330)
C3023	K50177103	Mylar 50WV 0.01μF (50F2U103M)
C3022	K71137685	Noiselimiter 20WV 6.8μF (CC99E1D6R8M)
		TRIMMER CAPACITOR
TC3001	K91000030	ECV1ZW 40×53 40pF
		INDUCTOR
L3001	L2030068	
		CONNECTOR
J3001	P0090051	5048-06A
J3002	P0090054	5048-07A
J3003	P0090037	5048-08A
P3003	T9201380A	3021-03
★★★★★ DISPLAY BOARD ★★★★★		
PB-2098A	F0002098A	P. C. Board
	C9020983	P. C. B with components
		DISPLAY LED
D2901~2906	G2090069	5082-7623
		CONNECTOR
P2902	T9202440B	5047-08

PARTS LIST

MAIN CHASSIS

Symbol No.	Parts No.	Description
		IC
Q1,2	G1090070	μPC14308
Q3	G1090114	μPC14312
		TRANSISTOR
Q5	G3107150C	2SA715C
		DIODE
D10,16,18,19,31	G2090118	Germanium 1SS97
D1~3,9,11~15,17,27 ~30	G2015550	Silicon 1S1555
D5~7 ,20 ,26	G2090001	〃 10D1
	J01245562	Carbon film ¼W TJ 5.6kΩ
		RESISTOR
R5	J01245821	Carbon film ¼W TJ 820Ω
	J00245102	〃 〃 〃 VJ 1kΩ
R6	J01245332	〃 〃 〃 TJ 3.3kΩ
R19,43	J01245472	〃 〃 〃 〃 4.7kΩ
R2	J00245273	〃 〃 〃 VJ 27kΩ
R1	J01245104	〃 〃 〃 TJ 100kΩ
R4,16	J10276100	〃 composition ½W GK10Ω
R39	J30356150	Cement 3W 〃 15Ω
R37	J01245681	Carbon film ¼W TJ 680Ω
R3,18,30	J10276101	〃 Composition ½W 〃 100Ω
R22	J10276221	〃 〃 〃 〃 220Ω
R7,9,17	J10276102	〃 〃 〃 〃 1kΩ
R20	J10276152	〃 〃 〃 〃 1.5kΩ
R8	J10276222	〃 〃 〃 〃 2.2kΩ
R25	J10276272	〃 〃 〃 〃 2.7kΩ
R33	J10276103	〃 〃 〃 〃 10kΩ
R14	J10276123	〃 〃 〃 〃 12kΩ
R13,29	J10276223	〃 〃 〃 〃 22kΩ
R44	J01245471	Carbon film ¼W TJ 470Ω
R40	J10276279	〃 〃 ½W 〃 2.7Ω
R36	J20306222	Metallic film 1 W 2.2kΩ
R35	J20356332	〃 〃 3 W 3.3kΩ
R41,42	J01245562	Carbon film ¼W TJ 5.6kΩ
R38	J01245182	〃 〃 〃 〃 1.8kΩ
		POTENTIOMETER
VR1	J60800021	VM11AA41A5M1112 10kΩA
VR2	J62800035	DM11A743A5M1222 10kΩB/500kΩC
VR3	J62800020	DM10A039A 5kΩB/5kΩB
VR4	J61800007	GM70A619A 50kΩB×2
VR5	J62800034	DM70A039A 5kΩB/5kΩA
VR7	J60800064	VM10A654C 1kΩB
VR8	J62800026	DM10E553A 5kΩB/5kΩB
VR9	J60800039	VM10AB08A 5kΩB
VR6	J62800047	DM10A042A 5kΩB/5kΩB
		CAPACITOR
C30	K02175470	Ceramic disc 50WV 47pF (DD106CH470J50V02)
C5	K00329001	Ceramic disc 1.5KV 300pF (MD40JSL301K1.5KV)
C16	K00359003	Ceramic disc 3KV 3pF (CC45SL3F030KY)
C4	K12359001	Ceramic disc 3KV 1000pF (CK45E3F102KY)
C103	K14179003	Ceramic disc 25WV 0.1μF (DB209YZ104Z5L0)

C29,59,60,89.90.104, 105~107.109	K13170103	Ceramic disc 50WV 0.01μF (DB201YF103Z5L5)
C17.18,19,37,38,46, 48~50,52~56,58,75 59,62~68,71~73,81, 82,88,91,96,98,99, 101,102,112,93	K13170473	Ceramic disc 50WV 0.047μF (DB207YF473Z5L5)
C110	K02175121	Ceramic disc 50WV 120pF
C35,36	K12279004	Ceramic disc 500WV 0.0047μF (ECKD2H472PE)
C77,79,80,83,106	K12279002	Ceramic disc 500WV 0.01μF (ECKD2H103PE)
C40	K00309002	Ceramic disc 1KWV 100pF (CC45SL3A101KY)
C14,15	K12329002	Ceramic disc 1.4KV 0.0047μF (ECKDAL472PE)
C12,13,44,78,92	K12329001	Ceramic disc 1.4KV 0.01μF (ECKDAL103PE)
C41	K30176201	Dipped mica 50WV 200pF (Z17D201K05)
C31	K30273010	Dipped mica 500WV 1pF (LCQ11010D5)
C11	K30273050	Dipped mica 500WV 5pF (LCQ11050D5)
C87	K30276100	Dipped mica 500WV 10pF (LCQ11100D5)
C1,42	K30276271	Dipped mica 500WV 270pF (LCQ1721K5)
C39	K30275361	Dipped mica 500WV 360pF (LCQ17361J5)
C3	K30276471	Dipped mica 500WV 470pF (LCQ17471K5)
C9	K30276511	Dipped mica 500WV 510pF (LCQ18651K5)
C8	K30279048	Dipped mica 500WV 750pF DM19D102K5)
C2	K30306391	Dipped mica 1KWV 390pF (DM15D391K10)
C7	K30306222	Dipped mica 1KWV 2200pF (DM19D222K10)
C47,70	K31306800	Moulded mica 1KWV 80pF (CML1-800K10)
C84	K50247473	Mylar 250WV 0.047μF (250F2U473M)
C20~28,51	K21270002	Feed thru 500WV 0.001μF (ECKL2H-102PE)
C61	K40120106	Electrolytic 16WV 10μF (16RL10)
C57	K40120336	Electrolytic 16WV 33μF (16RL33)
C34,43	K41120227	Electrolytic 16WV 220μF (16TL220)
C111	K31306201	Dipped mica 1KV 200pF
C108	K41140227	Electrolytic 25WV 220μF
		VARIABLE CAPACITOR
VC1	K90000035	RT-18B-300
VC2	K90000016	C134E125
		TRIMMER CAPACITOR
TC1	K91000007	120C 10×2 1.5KV 5pF

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